

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L8	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:05
L9	8	"3185389"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L10	2	"2932474"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L11	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L12	3	"2001098658"	DERWENT	OR	OFF	2011/05/09 14:06
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L14	3	("3182902").URPN.	USPAT	OR	OFF	2011/05/09 14:06
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L16	7	("3578279" "4427349" "4549859" "5934884" "6004113").PN. OR ("6485271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L17	15	("1129526" "1290159" "3030056" "3185389"). PN. OR ("3578279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
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L19	36	("1988295" "2069767" "3030056" "3065901" "3292884" "3465954" "3531069" "3540813" "3578279" "3814357" "3887304" "3926156" "4043432" "4108581" "4174189" "4200426" "4262977" "4549859" "4871300" "4891955" "5090657").PN. OR ("5342179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L20	29	("0886227" "0956618" "1119300" "1711085" "1988295" "20040168464" "2175784" "2222724" "2687270" "2949324" "2979297" "4722505" "4731966" "4771989" "4871300" "5342179" "5913892" "6004113" "6079690").PN. OR ("7478790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
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L23	6	("4544334" "5252038" "5772410").PN. OR ("5934884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L24	4	"1057294"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L25	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L26	0	("2008/0232984").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L27	0	min-woo adj lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/05/09 14:06

L28	49	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/05/09 14:06
L29	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/05/09 14:06
L30	753	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L31	17	L30 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L32	134	L30 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L33	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L34	753	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L35	1595507	spring or coil	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L36	14343	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L37	6	L36 and L34	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L38	1595507	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L39	1735498	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L40	243	L39 and L34	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L41	9	L40 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L42	27	("2865559" "3947155" "4067667" "4179630" "4360087" "4427906" "4781546" "4924675" "5354185" "5727932" "5772410" "5779455" "5993175" "6082132" "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L43	753	267/178,166.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L44	78	L43 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L45	5	("3058705").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L46	24	("0818242" "3058705" "3544106" "3761083"). PN. OR ("4775149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L47	726	248/618,624.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06

L48	19	L47 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L49	10220	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L50	70	L49 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L51	22	("0485652" "4553545" "4760849" "4830023" "4994069" "5069217" "5122136" "5171383" "5304194" "5382259" "5540680" "5690666" "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L52	524	("3509883" "3868956" "3993078" "4130904" "4503569" "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L53	18	("1878128" "2514394" "2704696" "3141660" "3779537" "3854308" "4553545" "4712778" "4886250" "4905574" "5246215" "5361500" "5368107" "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L54	9	("485652").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L55	77	("0026954" "0085938" "0140975" "0274715" "0380651" "0485652" "0569256" "1250892" "1744389" "1751261" "1798885" "1804821" "1839325" "1879172" "1907324" "20010008030" "20010013147" "20020125623" "20040025257" "20060042016" "2480158" "3751025" "4077619" "4111407" "4535978" "4548390" "4664361" "4726572" "5040255" "5127635" "5222264" "5319815" "5701623" "5713088" "5720471" "5868383" "6134729" "6243900" "6256820" "6260223" "6318416" "6336305" "6339857" "6398199" "6408469" "6481701" "6931685").PN. OR ("7178187").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06

L56	31	("0380651" "1751261" "2666636" "2668278").PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L57	44	("1963054" "2650617" "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L58	6	("1751261" "2751179" "3751025" "4111407").PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L59	6	("1751261" "2751179" "3751025" "4111407").PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
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L61	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L62	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L63	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L64	1	"2004005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L65	1	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L66	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L67	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L68	0	("2008/0098560").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L69	488	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L70	5	("3058705").URPN.	USPAT	OR	ON	2011/05/09 14:06
L71	334	nonlinear adj spring	USPAT	OR	ON	2011/05/09 14:06
L72	642	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06
L73	1770	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06
L74	29	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06

L75	18	("1095821" "20020113352" "2055242" "2848216" "3039757" "3750238" "3856285" "5062619" "5092568" "5529327" "5622358" "6193225" "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L76	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L77	33	("2991064" "3011775" "4632496" "4655462" "4826144" "4830344" "4876781" "4893795" "4907788" "4915366" "4961253" "4964204" "4974821" "5108078" "5139243" "5139276" "5160122" "5203849" "5239737" "5503375" "5615870" "5709371" "5791638" "6122862" "6193225" "6220586" "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L78	12	("1846257" "2991064" "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L79	49	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multiple)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L80	8	("5610356" "5648621" "5783765" "6297437").PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L81	2792	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L82	1338	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L83	660	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L84	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L85	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L86	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L87	1280	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06

L88	1	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L89	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L90	0	spring near pitch with asymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L91	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L92	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L93	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L94	1	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L95	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L96	0	spring near pitch\$2 with asymm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L97	1309	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L98	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L99	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/05/09 14:06
L100	10	L99 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L101	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
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L111	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L112	3	"2001098658"	DERWENT	OR	OFF	2011/05/09 14:06
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L128	49	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/05/09 14:06
L129	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/05/09 14:06
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L131	17	L130 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L132	134	L130 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L133	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L134	753	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L135	1595507	spring or coil	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L136	14343	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L137	6	L136 and L134	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L138	1595507	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L139	1735498	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L140	243	L139 and L134	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L141	9	L140 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L142	27	("2865559" "3947155" "4067667" "4179630" "4360087" "4427906" "4781546" "4924675" "5354185" "5727932" "5772410" "5779455" "5993175" "6082132" "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
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L149	10220	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L150	70	L149 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L151	22	("0485652" "4553545" "4760849" "4830023" "4994069" "5069217" "5122136" "5171383" "5304194" "5382259" "5540680" "5690666" "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L152	524	("3509883" "3868956" "3993078" "4130904" "4503569" "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L153	18	("1878128" "2514394" "2704696" "3141660" "3779537" "3854308" "4553545" "4712778" "4886250" "4905574" "5246215" "5361500" "5368107" "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L154	9	("485652").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L155	77	("0026954" "0085938" "0140975" "0274715" "0380651" "0485652" "0569256" "1250892" "1744389" "1751261" "1798885" "1804821" "1839325" "1879172" "1907324" "20010008030" "20010013147" "20020125623" "20040025257" "20060042016" "2480158" "3751025" "4077619" "4111407" "4535978" "4548390" "4664361" "4726572" "5040255" "5127635" "5222264" "5319815" "5701623" "5713088" "5720471" "5868383" "6134729" "6243900"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06

		"6256820" "6260223" "6318416" "6336305" "6339857" "6398199" "6408469" "6481701" "6931685").PN. OR ("7178187").URPN.				
L156	31	("0380651" "1751261" "2666636" "2668278"). PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L157	44	("1963054" "2650617" "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L158	6	("1751261" "2751179" "3751025" "4111407"). PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L159	6	("1751261" "2751179" "3751025" "4111407"). PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/05/09 14:06
L160	12	("1963054").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L161	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L162	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L163	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L164	1	"2004005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L165	1	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L166	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L167	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2011/05/09 14:06
L168	0	("2008/0098560").URPN.	USPAT	OR	OFF	2011/05/09 14:06
L169	488	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L170	5	("3058705").URPN.	USPAT	OR	ON	2011/05/09 14:06
L171	334	nonlinear adj spring	USPAT	OR	ON	2011/05/09 14:06
L172	642	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06
L173	1770	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06
L174	29	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2011/05/09 14:06

L175	18	("1095821" "20020113352" "2055242" "2848216" "3039757" "3750238" "3856285" "5062619" "5092568" "5529327" "5622358" "6193225" "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L176	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L177	33	("2991064" "3011775" "4632496" "4655462" "4826144" "4830344" "4876781" "4893795" "4907788" "4915366" "4961253" "4964204" "4974821" "5108078" "5139243" "5139276" "5160122" "5203849" "5239737" "5503375" "5615870" "5709371" "5791638" "6122862" "6193225" "6220586" "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L178	12	("1846257" "2991064" "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L179	49	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multiple)	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L180	8	("5610356" "5648621" "5783765" "6297437").PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L181	2792	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L182	1338	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L183	660	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L184	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L185	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L186	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L187	1280	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06

L188	1	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L189	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L190	0	spring near pitch with asymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L191	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L192	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L193	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L194	1	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L195	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L196	0	spring near pitch\$2 with asymmm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L197	1309	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L198	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L199	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/05/09 14:06
L200	10	L199 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L201	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L202	1	L201 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06

L203	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L204	9	L203 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L205	29	("1878128" "2514394" "3602205" "4111407" "4120489" "4475725" "4538563" "4590900" "4807859" "4970997" "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L206	11	L205 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L207	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L208	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L209	5	("3058705").URPN.	USPAT	OR	ON	2011/05/09 14:06
L210	29	("1878128" "2514394" "3602205" "4111407" "4120489" "4475725" "4538563" "4590900" "4807859" "4970997" "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L211	11	L210 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L212	173	"5085562"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L213	1	"5085562".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/09 14:06
L214	3	((("3058705") or ("7249937"))).PN.	USPAT; USOCR	OR	OFF	2011/05/09 14:37
S1	8	"3185389"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S2	2	"2932474"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S3	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2009/04/20 09:51
S4	3	"2001098658"	DERWENT	OR	OFF	2009/04/20 09:51
S5	1	("2932474").URPN.	USPAT	OR	OFF	2009/04/20 10:41

S6	3	("3182902").URPN.	USPAT	OR	OFF	2009/04/20 10:41
S7	39	("2857746" "2894678" "3016183" "3044688" "3169696" "3182902" "3185389" "3209991" "3215343" "3233822" "3246836" "3279683" "3385542" "3454213" "3458121" "3689207" "3807907" "3836290" "3850551" "3876339" "3883101" "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:42
S8	6	("3578279" "4427349" "4549859" "5934884" "6004113").PN. OR ("6485271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:43
S9	14	("1129526" "1290159" "3030056" "3185389"). PN. OR ("3578279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:45
S10	15	("3030056").URPN.	USPAT	OR	OFF	2009/04/20 10:46
S11	35	("1988295" "2069767" "3030056" "3065901" "3292884" "3465954" "3531069" "3540813" "3578279" "3814357" "3887304" "3926156" "4043432" "4108581" "4174189" "4200426" "4262977" "4549859" "4871300" "4891955" "5090657").PN. OR ("5342179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:47
S12	29	("0886227" "0956618" "1119300" "1711085" "1988295" "20040168464" "2175784" "2222724" "2687270" "2949324" "2979297" "4722505" "4731966" "4771989" "4871300" "5342179" "5913892" "6004113" "6079690").PN. OR ("7478790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:47

S13	39	("2857746" "2894678" "3016183" "3044688" "3169696" "3182902" "3185389" "3209991" "3215343" "3233822" "3246836" "3279683" "3385542" "3454213" "3458121" "3689207" "3807907" "3836290" "3850551" "3876339" "3883101" "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:48
S14	33	("2069767" "2130835" "2463035" "2801045" "3065901" "3169757" "3185389" "3578279" "3689203" "3820921"). PN. OR ("4549859").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:48
S15	5	("4544334" "5252038" "5772410").PN. OR ("5934884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:49
S16	4	"1057294"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:53
S17	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 10:53
S18	0	("2008/0232984").URPN.	USPAT	OR	OFF	2009/04/20 10:53
S19	0	min-woo adj lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:54
S20	27	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:54
S21	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2009/04/20 10:55
S22	733	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:22
S23	16	S22 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:23
S24	130	S22 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:24
S25	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S26	733	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S27	1392126	spring or coil	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:25
S28	12321	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:26
S29	6	S28 and S26	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:26

S30	1392126	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S31	1513687	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S32	232	S31 and S26	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:27
S33	9	S32 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2009/04/20 11:30
S34	24	("2865559" "3947155" "4067667" "4179630" "4360087" "4427906" "4781546" "4924675" "5354185" "5727932" "5772410" "5779455" "5993175" "6082132" "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 11:33
S35	724	267/178,166.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:07
S36	67	S35 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:07
S37	4	("3058705").URPN.	USPAT	OR	OFF	2009/04/20 12:10
S38	19	("0818242" "3058705" "3544106" "3761083"). PN. OR ("4775149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:11
S39	711	248/618,624.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:13
S40	16	S39 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/20 12:13
S41	9226	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:24
S42	61	S41 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:25
S43	17	("0485652" "4553545" "4760849" "4830023" "4994069" "5069217" "5122136" "5171383" "5304194" "5382259" "5540680" "5690666" "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:29
S44	476	("3509883" "3868956" "3993078" "4130904" "4503569" "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:30

S45	18	("1878128" "2514394" "2704696" "3141660" "3779537" "3854308" "4553545" "4712778" "4886250" "4905574" "5246215" "5361500" "5368107" "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:31
S46	7	("485652").URPN.	USPAT	OR	OFF	2009/04/21 11:34
S47	68	("0026954" "0085938" "0140975" "0274715" "0380651" "0485652" "0569256" "1250892" "1744389" "1751261" "1798885" "1804821" "1839325" "1879172" "1907324" "20010008030" "20010013147" "20020125623" "20040025257" "20060042016" "2480158" "3751025" "4077619" "4111407" "4535978" "4548390" "4664361" "4726572" "5040255" "5127635" "5222264" "5319815" "5701623" "5713088" "5720471" "5868383" "6134729" "6243900" "6256820" "6260223" "6318416" "6336305" "6339857" "6398199" "6408469" "6481701" "6931685").PN. OR ("7178187").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:35
S48	28	("0380651" "1751261" "2666636" "2668278"). PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:37
S49	38	("1963054" "2650617" "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:40
S50	6	("1751261" "2751179" "3751025" "4111407"). PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:41
S51	6	("1751261" "2751179" "3751025" "4111407"). PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 11:41
S52	7	("1963054").URPN.	USPAT	OR	OFF	2009/04/21 11:43
S53	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2009/04/21 13:21

S54	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2009/04/22 12:43
S55	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S56	0	"2004005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S57	0	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S58	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:13
S59	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2009/04/22 13:37
S60	0	("2008/0098560").URPN.	USPAT	OR	OFF	2009/04/22 13:46
S61	482	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:26
S62	4	("3058705").URPN.	USPAT	OR	ON	2009/11/05 15:28
S63	323	nonlinear adj spring	USPAT	OR	ON	2009/11/05 15:31
S64	578	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2009/11/05 15:31
S65	1567	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2009/11/05 15:31
S66	26	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2009/11/05 15:32
S67	17	("1095821" "20020113352" "2055242" "2848216" "3039757" "3750238" "3856285" "5062619" "5092568" "5529327" "5622358" "6193225" "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:33
S68	17	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302"). PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:33

S69	30	("2991064" "3011775" "4632496" "4655462" "4826144" "4830344" "4876781" "4893795" "4907788" "4915366" "4961253" "4964204" "4974821" "5108078" "5139243" "5139276" "5160122" "5203849" "5239737" "5503375" "5615870" "5709371" "5791638" "6122862" "6193225" "6220586" "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:34
S70	11	("1846257" "2991064" "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:35
S71	42	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multuple)	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:38
S72	5	("5610356" "5648621" "5783765" "6297437"). PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S73	2617	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S74	1249	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:41
S75	632	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 15:42
S76	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/05 16:35
S77	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:23
S78	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S79	1196	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S80	0	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S81	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S82	0	spring near pitch with asymeric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S83	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S84	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S85	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24

S86	0	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:24
S87	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S88	0	spring near pitch\$2 with asymm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S89	1223	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 15:25
S90	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2009/11/06 16:04
S91	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/01/10 11:42
S92	10	S91 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:42
S93	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:44
S94	1	S93 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:44
S95	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:52
S96	9	S95 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:52
S97	29	("1878128" "2514394" "3602205" "4111407" "4120489" "4475725" "4538563" "4590900" "4807859" "4970997" "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:55

S98	11	S97 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 11:55
S99	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271"). PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 12:02
S100	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 12:04
S101	8	"3185389"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S102	2	"2932474"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S103	5	"3182902"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S104	3	"2001098658"	DERWENT	OR	OFF	2011/01/10 15:23
S105	1	("2932474").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S106	3	("3182902").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S107	39	("2857746" "2894678" "3016183" "3044688" "3169696" "3182902" "3185389" "3209991" "3215343" "3233822" "3246836" "3279683" "3385542" "3454213" "3458121" "3689207" "3807907" "3836290" "3850551" "3876339" "3883101" "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S108	6	("3578279" "4427349" "4549859" "5934884" "6004113").PN. OR ("6485271").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S109	15	("1129526" "1290159" "3030056" "3185389"). PN. OR ("3578279").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S110	16	("3030056").URPN.	USPAT	OR	OFF	2011/01/10 15:23

S111	36	("1988295" "2069767" "3030056" "3065901" "3292884" "3465954" "3531069" "3540813" "3578279" "3814357" "3887304" "3926156" "4043432" "4108581" "4174189" "4200426" "4262977" "4549859" "4871300" "4891955" "5090657").PN. OR ("5342179").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S112	29	("0886227" "0956618" "1119300" "1711085" "1988295" "20040168464" "2175784" "2222724" "2687270" "2949324" "2979297" "4722505" "4731966" "4771989" "4871300" "5342179" "5913892" "6004113" "6079690").PN. OR ("7478790").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S113	39	("2857746" "2894678" "3016183" "3044688" "3169696" "3182902" "3185389" "3209991" "3215343" "3233822" "3246836" "3279683" "3385542" "3454213" "3458121" "3689207" "3807907" "3836290" "3850551" "3876339" "3883101" "4118153"). PN. OR ("4427349").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S114	34	("2069767" "2130835" "2463035" "2801045" "3065901" "3169757" "3185389" "3578279" "3689203" "3820921"). PN. OR ("4549859").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S115	6	("4544334" "5252038" "5772410").PN. OR ("5934884").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S116	4	"1057294"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S117	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S118	0	("2008/0232984").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S119	0	min-woo adj lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23

S120	44	min-woo and lee.in.	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23
S121	7	spring near mass adj part	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/01/10 15:23
S122	748	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S123	17	S122 and "267".clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S124	133	S122 and "248".clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S125	0	417/363.clas.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S126	748	417/363.ccls.	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S127	1562521	spring or coil	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S128	14001	(spring or coil) with pitch \$2	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S129	6	S128 and S126	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S130	1562521	(spring or coil)	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S131	1699466	(spring\$1 or coil\$1)	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S132	240	S131 and S126	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S133	9	S132 and pitch\$2	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S134	27	("2865559" "3947155" "4067667" "4179630" "4360087" "4427906" "4781546" "4924675" "5354185" "5727932" "5772410" "5779455" "5993175" "6082132" "6092999").PN. OR ("6273688").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S135	746	267/178,166.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S136	77	S135 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S137	5	("3058705").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S138	22	("0818242" "3058705" "3544106" "3761083"). PN. OR ("4775149").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S139	722	248/618,624.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23

S140	18	S139 and pitch	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S141	10044	variable adj pitch\$1	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S142	70	S141 near spring	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S143	21	("0485652" "4553545" "4760849" "4830023" "4994069" "5069217" "5122136" "5171383" "5304194" "5382259" "5540680" "5690666" "5766160").PN. OR ("6254592").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S144	517	("3509883" "3868956" "3993078" "4130904" "4503569" "4512338"). PN. OR ("4553545").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S145	18	("1878128" "2514394" "2704696" "3141660" "3779537" "3854308" "4553545" "4712778" "4886250" "4905574" "5246215" "5361500" "5368107" "6375171"). PN. OR ("7270320").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S146	9	("485652").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S147	74	("0026954" "0085938" "0140975" "0274715" "0380651" "0485652" "0569256" "1250892" "1744389" "1751261" "1798885" "1804821" "1839325" "1879172" "1907324" "20010008030" "20010013147" "20020125623" "20040025257" "20060042016" "2480158" "3751025" "4077619" "4111407" "4535978" "4548390" "4664361" "4726572" "5040255" "5127635" "5222264" "5319815" "5701623" "5713088" "5720471" "5868383" "6134729" "6243900" "6256820" "6260223" "6318416" "6336305" "6339857" "6398199" "6408469" "6481701" "6931685").PN. OR ("7178187").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23

S148	30	("0380651" "1751261" "2666636" "2668278").PN. OR ("4077619").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S149	43	("1963054" "2650617" "3127147").PN. OR ("3751025").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S150	6	("1751261" "2751179" "3751025" "4111407").PN. OR ("D336600").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S151	6	("1751261" "2751179" "3751025" "4111407").PN. OR ("D338383").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2011/01/10 15:23
S152	11	("1963054").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S153	1	"10572954"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S154	1	"11887179"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S155	1	"10587234"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S156	1	"2004005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S157	1	"2004/005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S158	1	"20040005222"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S159	1	"11591959"	US-PGPUB; USPAT	OR	OFF	2011/01/10 15:23
S160	0	("2008/0098560").URPN.	USPAT	OR	OFF	2011/01/10 15:23
S161	487	248/624.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S162	5	("3058705").URPN.	USPAT	OR	ON	2011/01/10 15:23
S163	332	nonlinear adj spring	USPAT	OR	ON	2011/01/10 15:23
S164	631	nonlinear near1 spring	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23
S165	1730	(nonlinear or non-linear or non adj linear) near spring	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23
S166	29	((nonlinear or non-linear or non adj linear) near spring).ti.	US-PGPUB; USPAT	OR	ON	2011/01/10 15:23

S167	18	("1095821" "20020113352" "2055242" "2848216" "3039757" "3750238" "3856285" "5062619" "5092568" "5529327" "5622358" "6193225" "6328294").PN. OR ("7249757").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S168	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S169	31	("2991064" "3011775" "4632496" "4655462" "4826144" "4830344" "4876781" "4893795" "4907788" "4915366" "4961253" "4964204" "4974821" "5108078" "5139243" "5139276" "5160122" "5203849" "5239737" "5503375" "5615870" "5709371" "5791638" "6122862" "6193225" "6220586" "6481701").PN. OR ("7055812").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S170	11	("1846257" "2991064" "5139243").PN. OR ("5615870").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S171	45	spring with pitch\$3 near3 (non-linear or non adj linear or nonlinear or various or multiple)	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S172	8	("5610356" "5648621" "5783765" "6297437").PN. OR ("6649821").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S173	2757	spring near2 pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S174	1317	spring near pitch\$3	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S175	657	spring with pitch\$3 near3 var\$4	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S176	0	"11447301"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S177	0	spring near assymetric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S178	0	spring near asymeric near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S179	1261	spring near pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23

S180	1	spring near pitch near uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S181	0	spring near pitch with assymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S182	0	spring near pitch with asymetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S183	0	spring near pitch with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S184	0	spring near pitch* 2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S185	0	spring near pitch\$2 with asymmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S186	1	spring near pitch\$2 with uneven	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S187	0	spring near pitch\$2 with symmetric	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S188	0	spring near pitch\$2 with asymmm\$5	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S189	1290	spring near pitch\$2	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S190	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S191	25	(US-3185389-\$ or US-3182902-\$ or US-2932474-\$ or US-4427349-\$ or US-6485271-\$ or US-7249937-\$ or US-6004113-\$ or US-4549859-\$ or US-6409160-\$ or US-6832899-\$ or US-5246215-\$ or US-4886250-\$ or US-7178187-\$ or US-6273396-\$ or US-4077619-\$ or US-3751025-\$ or US-4111407-\$ or US-1963054-\$ or US-3058705-\$ or US-6193225-\$ or US-7055812-\$ or US-6382607-\$ or US-6649821-\$).did. or (US-3058705-\$).did. or (WO-0198658-\$).did.	USPAT; USOCR; DERWENT	OR	ON	2011/01/10 15:23
S192	10	S191 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S193	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S194	1	S193 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23

S195	22	("0338267" "1963054" "2586646" "3068666" "5678809" "5944302").PN. OR ("6193225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S196	9	S195 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S197	29	("1878128" "2514394" "3602205" "4111407" "4120489" "4475725" "4538563" "4590900" "4807859" "4970997" "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S198	11	S197 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S199	11	("20010021350" "20020009370" "20020051716" "4118153" "4914921" "5252038" "5487648" "5579653" "5687582" "6300378" "6485271").PN. OR ("7249937").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S200	1	"10572954"	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 15:23
S201	5	("3058705").URPN.	USPAT	OR	ON	2011/01/10 16:39
S202	29	("1878128" "2514394" "3602205" "4111407" "4120489" "4475725" "4538563" "4590900" "4807859" "4970997" "4993376").PN. OR ("5246215").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 16:52
S203	11	S202 and pitch	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/10 16:52
S204	173	"5085562"	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/02 14:13
S205	1	"5085562".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2011/05/02 14:13

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